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SEQUENCE LISTING

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TECH CENTER 1600/2900

<110> Chugai Seiyaku Kabushiki Kaisha, 5001, Iwamoto et

<120> Cell Calcification Suppressing Proteins and Genes of
the Proteins

<130> chugai seiyaku kabushiki kaisha 5001

<140> 08/878,177

<141> 1997-06-18

<160> 7

<170> PatentIn Ver. 2.0

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<211> 1447

<212> DNA

<213> C-11 gene, c-erg gene w/ deletion, chicken DNA

<400> 1

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1447

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<211> 451

<212> PRT

<213> protein sequence from C-11 gene

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Met Thr Ala Ser Ser Ser Ser Glu Tyr Gly Gln Thr Ser Lys Met Ser
35 40 45

Pro Arg Val Pro Gln Gln Asp Trp Leu Ser Gln Pro Pro Ala Arg Val
50 55 60

Thr Ile Lys Met Glu Cys Asn Pro Asn Gln Val Asn Gly Ser Arg Asn
65 70 75 80

Ser Pro Asp Asp Cys Ser Val Ala Lys Gly Gly Lys Met Val Ser Ser
85 90 95

Ser Asp Asn Val Gly Met Asn Tyr Gly Ser Tyr Met Glu Glu Lys His
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Ile Pro Pro Pro Asn Met Thr Thr Asn Glu Arg Arg Val Ile Val Pro
115 120 125

Ala Asp Pro Thr Leu Trp Ser Thr Asp His Val Arg Gln Trp Leu Glu
130 135 140

Trp Ala Val Lys Glu Tyr Gly Leu Pro Asp Val Asp Ile Leu Leu Phe
145 150 155 160

Gln Asn Ile Asp Gly Lys Glu Leu Cys Lys Met Thr Lys Asp Asp Phe
165 170 175

Gln Arg Leu Thr Pro Ser Tyr Asn Ala Asp Ile Leu Leu Ser His Leu
180 185 190

His Tyr Leu Arg Glu Arg Gly Ala Thr Phe Ile Phe Pro Asn Thr Ser
195 200 205

Val Tyr Pro Glu Ala Thr Gln Arg Ile Thr Thr Arg Pro Asp Leu Pro
210 215 220

Tyr Glu Gln Ala Arg Arg Ser Ala Trp Thr Ser His Ser His Pro Thr
 225 230 235 240
 Gln Ser Lys Ala Thr Gln Pro Ser Ser Ser Thr Val Pro Lys Thr Glu
 245 250 255
 Asp Gln Arg Pro Gln Leu Asp Pro Tyr Gln Ile Leu Gly Pro Thr Ser
 260 265 270
 Ser Arg Leu Ala Asn Pro Gly Ser Gly Gln Ile Gln Leu Trp Gln Phe
 275 280 285
 Leu Leu Glu Leu Leu Ser Asp Ser Ser Asn Ser Asn Cys Ile Thr Trp
 290 295 300
 Glu Gly Thr Asn Gly Glu Phe Lys Met Thr Asp Pro Asp Glu Val Ala
 305 310 315 320
 Arg Arg Trp Gly Glu Arg Lys Ser Lys Pro Asn Met Asn Tyr Asp Lys
 325 330 335
 Leu Ser Arg Ala Leu Arg Tyr Tyr Tyr Asp Lys Asn Ile Met Thr Lys
 340 345 350
 Val His Gly Lys Arg Tyr Ala Tyr Lys Phe Asp Phe His Gly Ile Ala
 355 360 365
 Gln Ala Leu Gln Pro His Pro Pro Glu Ser Ser Met Tyr Lys Tyr Pro
 370 375 380
 Ser Asp Leu Pro Tyr Met Ser Ser Tyr His Ala His Pro Gln Lys Met
 385 390 395 400
 Asn Phe Val Ala Pro His Pro Pro Ala Leu Pro Val Thr Ser Ser Ser
 405 410 415
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<210> 3
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<212> DNA

<213> c-erg gene, chicken DNA

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cgccgagcta taacgcagat atcctcctgt cacacctaca ctacctcaga gagactcctc 660
ttccacattt gacttcagat gatgttgata aggccttaca aaactctcca cggttaatgc 720
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caacgcaaag aataacaaca aggccagatt taccttatga gcaagcgagg agatcagcgt 840
ggacgagtca cagccatccc actcagtc aaagctacca accatcatct tcaacagtcg 900
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<211> 478

<212> PRT

<213> protein sequence from c-erg gene

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      20             25             30
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Met Thr Ala Ser Ser Ser Ser Glu Tyr Gly Gln Thr Ser Lys Met Ser
      35             40             45
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Pro Arg Val Pro Gln Gln Asp Trp Leu Ser Gln Pro Pro Ala Arg Val
      50             55             60
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Ser	Asp	Asn	Val	Gly	Met	Asn	Tyr	Gly	Ser	Tyr	Met	Glu	Glu	Lys	His	
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Trp	Ala	Val	Lys	Glu	Tyr	Gly	Leu	Pro	Asp	Val	Asp	Ile	Leu	Leu	Phe	
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Gln	Asn	Ile	Asp	Gly	Lys	Glu	Leu	Cys	Lys	Met	Thr	Lys	Asp	Asp	Phe	
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Glu Phe Lys Met Thr Asp Pro Asp Glu Val Ala Arg Arg Trp Gly Glu
 340 345 350

Arg Lys Ser Lys Pro Asn Met Asn Tyr Asp Lys Leu Ser Arg Ala Leu
 355 360 365

Arg Tyr Tyr Tyr Asp Lys Asn Ile Met Thr Lys Val His Pro Pro Glu
 370 375 380

Ser Ser Met Tyr Lys Tyr Pro Ser Asp Leu Pro Tyr Met Ser Ser Tyr
 385 390 395 400

His Gly Lys Arg Tyr Ala Tyr Lys Phe Asp Phe His Gly Ile Ala Gln
 405 410 415

Ala Leu Gln Pro His Ala His Pro Gln Lys Met Asn Phe Val Ala Pro
 420 425 430

His Pro Pro Ala Leu Pro Val Thr Ser Ser Ser Phe Phe Ala Ala Pro
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Asn Pro Tyr Trp Asn Ser Pro Thr Gly Gly Ile Tyr Pro Asn Thr Arg
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<211> 23

<212> DNA

<213> primer for isolation of C-11 and c-erg genes

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<210> 6

<211> 25

<212> DNA

<213> primer for isolation of C-11 and c-erg genes

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<210> 7
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